

PHOTOTHERMAL

SPECTROSCOPY CORP

Dear colleagues,

I am excited to share two big pieces of news with you.

First, as you may have heard, Anasys Instruments and its nanoIR™ family of nanoscale IR spectroscopy products has been acquired by Bruker, the industry leader in Atomic Force Microscopy (AFM). You can read more about it [here](#). This is very exciting news for all current and future nanoIR customers because it pairs the leader in nanoscale IR spectroscopy with the leader in AFM and scanning probe microscopy and I am confident that Bruker is well positioned to take AFM-IR and the Anasys nanoIR products to a whole new level.

It's been an exciting journey for Anasys since founding the company in 2005. Our defining accomplishment was the pioneering of a whole new field called Photothermal IR Spectroscopy (PTIR) at the nanoscale, using an AFM probe to measure the photothermal response due to IR absorption. Now Bruker can leverage its worldwide sales, support and application network, as well as its deep technical expertise to take the field of AFM-IR to the next level.

The second piece of news is that I would like to share with you is that the founders of Anasys have spun off a new company called [Photothermal Spectroscopy Corp](#) (PSC) to focus on mIRage®, our breakthrough optical IR spectroscopy and imaging instrument.

The Mirage system is an optical microscope based instrument that uses a technology called Optical Photothermal Infrared (OPTIR) Spectroscopy that uses an optical beam to measure a sample's photothermal response due to IR absorption. The visible optical beam in the Mirage system can be focused 20 times smaller than the IR beam, providing much better spatial resolution than conventional IR microscopes. Mirage brings the following benefits to the field of IR microscopy over traditional FTIR:

- IR spectroscopy and imaging with sub-micron spatial resolution
- Absorptive IR spectra collected with a non-contact optical technique in reflection providing good correlation to transmission FTIR
- Eliminate the need for thin sections in IR microscopy since OPTIR provides surface spectra on thick samples in a reflection configuration, without the contact related limitations of ATR
- It can measure any sample prepared for IR or Raman spectroscopy

PSC already has customers for our Mirage product and are seeing very strong interest in a large number of application areas. We are also seeing strong interest among customers for products that combine nanoIR and Mirage since it provides a macro to nanoscale IR platform. PSC will be working closely with Bruker/Anasys to address your needs for the nanoIR/Mirage combinations. Please contact us with any questions on the Mirage, and Bruker for questions on the nanoIR platforms.

We appreciate your support in our prior journey with Anasys and we look forward to your support for PSC as we pioneer the whole new field of Optical Photothermal IR Spectroscopy and provide insights to high value industrial and academic problems.

Roshan Shetty

Co-founder/CEO, Photothermal Spectroscopy Corp
Co-founder and former CEO, Anasys Instruments Corp